heated as much as when all of the heat necessary for the desired effect must be supplied wholly from the dies. The added heat when the dies are applied, will be sufficient to render the thermoplastic substance fluidal and become molded as described above. In that way a more thorough and a quicker thermoplastic action is effected, and the time of cooling is decreased. Less heat is necessary in the dies and hence the dies cool more quickly.

While I have disclosed a few embodiments of the invention and a mode of producing them, it is to be understood that the invention is not limited thereto but comprehends other constructions, details, arrangements of parts, features and process steps without departing from the spirit of the invention.

Having thus disclosed the invention,

I claim:

1. A method of making an article having a body of fibrous material, comprising covering the surface of said body with a layer of a thermoplastic vinyl resin of the bond group—$CH:CH_2$, applying heat to cause the thermoplastic substance to fuse with said body and form a covering for said body, and cooling the same to cause the thermoplastic substance to solidify.

2. A method of making an article having a body of fibrous material, comprising covering the surface of said body with a layer of a plastic vinyl resin of the bond group—$CH:CH_2$, applying heat and pressure to cause the thermoplastic substance to fuse with said body and form a covering for said body, cooling the same while under pressure to cause the thermoplastic substance to solidify, and removing the pressure.

3. A method of making articles having a body of fibrous material, comprising covering said body with a layer of a thermoplastic vinyl resin of the bond group—$CH:CH_2$ in the presence of heat and pressure to cause the body and the substance to fuse together, cooling the same to produce a strong unit, and removing the pressure.

4. A method of surfacing an article having a body of fibrous material, comprising applying a thermoplastic vinyl resin of the polymerization group to the surface of said body, hot die pressing said substance and article to fuse them together and to shape the same to conform to the surface of the die, cooling the same to solidify the substance on the surface of said body, and removing the die pressure to leave the body with a covering having a given surface produced by the die surface.

5. A method of producing an article having a body of fibrous material, comprising applying a decorative means to said body, applying a layer of a thermoplastic vinyl resin of the bond group—$CH:CH_2$ to said body and said decorative means, applying heat and pressure to said body, means and substance to cause them to fuse together, cooling the same to effect a unitary article, and removing the pressure to leave a decorated article.

6. A method of producing a decorated article having a body of fibrous material, comprising applying a thermoplastic vinyl resin of the polymerization group to the surface of said body and a decorative element, applying heat and pressure thereto to press the decorative element in the surface of the body and to cause the substance to fuse for uniting said body and said element and to unite with said body and said element, cooling the same while under pressure to effect a rigid unit thereof, and removing the pressure.

7. An article consisting of a body of fibrous material and a covering of thermoplastic vinyl resin of the bond group—$CH:CH_2$.

8. An article consisting of a body of fibrous material, and a covering of a thermoplastic vinyl resin of the polymerization group fused to said body.

9. An article comprising a body of fibrous material, a decorative element at the surface of said body, and a covering of a thermoplastic vinyl resin of the bond group—$CH:CH_2$ fused thereto and fusing said body and element.

10. An article comprising a body of fibrous material and a covering of a thermoplastic vinyl resin of the bond group—$CH:CH_2$ fused to the surface portion of said body and having a surface of given character.

11. An article comprising a body of fibrous material, a decorative element fused to a surface portion of said body by a thermoplastic vinyl resin of the bond group—$CH:CH_2$ and a covering of said substance fused to said body and element.

12. An article comprising a body of fibrous material, a covering of a thermoplastic vinyl resin of the polymerization group fused to the surface portion of said body, and a color giving matter included in said substance to give the desired color to the article.

13. An article comprising a plurality of bodies of fibrous material, and a covering of a thermoplastic vinyl resin of the bond group—$CH:CH_2$ fused to the surface portions of said bodies and uniting said bodies into a rigid unit.

14. An article comprising a plurality of bodies of fibrous material and having adjacently related surface portions, and a covering of a thermoplastic vinyl resin of the bond group—$CH:CH_2$ fused to the surface portions of said bodies and said adjacently related surface portions for fusing said bodies into a rigid unit.

15. An article comprising a body of accreted and integrated fibrous material, and a covering of a thermoplastic vinyl resin of the bond group—$CH:CH_2$ fused to the surface portion of said body and having a given surface finish.

16. An article comprising a body of accreted and integrated fibrous material, a decorative means at the surface of said body, and a covering of a thermoplastic vinyl resin of the polymerization group fused to the surface portion of said body and said means and having a given surface finish.

17. An article comprising a body of fibrous material inclosed in a solid covering of a thermoplastic vinyl resin of the bond group—$CH:CH_2$.

18. An article comprising a core of fibrous material, and a casting of thermoplastic vinyl resin of the bond group—$CH:CH_2$ inclosing said core.

19. An article comprising a hollow casting of solidified thermoplastic vinyl resin of the polymerization group and a core of fibrous material inclosed therein.

EDWARD C. SLOAN.